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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/717,743A

DATE: 03/25/2002

TIME: 10:50:21

Input Set : A:\01997.521003.SEQLIST.TXT
Output Set: N:\CRF3\03252002\I717743A.raw

4 <110> APPLICANT: Ranganathan, Rajesh
 5 Horvitz, H. R.
 6 Cannon, Stephen C.
 8 <120> TITLE OF INVENTION: NOVEL SEROTONIN-GATED ANION CHANNEL
 11 <130> FILE REFERENCE: 01997/521003
 13 <140> CURRENT APPLICATION NUMBER: 09/717,743A
 14 <141> CURRENT FILING DATE: 2000-11-21
 16 <150> PRIOR APPLICATION NUMBER: 09/559,622
 17 <151> PRIOR FILING DATE: 2000-04-27
 19 <150> PRIOR APPLICATION NUMBER: 60/131,149
 20 <151> PRIOR FILING DATE: 1999-04-27
 22 <160> NUMBER OF SEQ ID NOS: 6
 24 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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 28 <212> TYPE: DNA
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 34 cgttaattt tgaaacaca tatccgtcct ctttggaaaca gcatcagaaa actttctgct 180
 35 ctccgtgtcc ttctacttac tctgattgcc ttagttagtc acatcgcaag caacaactaa 240
 36 ctgccaatgg gaggagccag ttggagcagg gtgcgtgctc ggtgcgtt tcagaagggtt 300
 37 ttctttgtt ccagcatgtc ttttgaggc tggatcatca caatgaacat gtgtgagttc 360
 38 atccgtctgg attattctt ttcttacgtc ttctgagtac ttcatacttt ccaaattttt 420
 39 caactgaact tttcttctt ttcattgaa gtggtttgggt tttggtcggc tgatcaacgg 480
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 41 caaagaatat attccctctc gagcaagaga aaattccaga aaatagtagt tttttcaat 600
 42 tagtcgtttc atttgtacta gctaaaaaac ttgcaactta tggctttaaa acatgtgtt 660
 43 gcttcataaca aaaacattta actagtgttt ttccagtttt gtgttcgtt cattttctca 720
 44 ccaaactgac aataattact ttctgtgaac gtgtttgtt ggcaagctcc cgaatatttt 780
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106 gacactctta agttatcata ttcttaatttc caagaatgtt atatttgaa gaagccggtg 4500
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 108 cacacacaca cacacattca cgaaactttg tttgttttat gttacttata ttttatcttt 4620
 109 tctgtctgat catggtttc ggactgaaat tttgtttaatc ggaagttata tgtgagccac 4680
 110 attgattaaa cctgtgagag atgcccattt gtactcattt tacgactgtc tcattgtccaa 4740
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 112 ccaccatctg gatgtctggc cagattccat ccgaagcag tggacaattt ctccattgt 4860
 113 gctttccat tggattttac aatgtttat gtttagttat ccacagttaa aaattcccat 4920
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 115 cgatcaaaaac tatcagtgtat tgaagtttat ccctttat tccaataattt cacagttgcc 5040
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 117 cgttcaatct ttttatgggt atttcttgc aatgtccatt ttaatattta tagaacactt 5160
 118 ttatgtacat tttgttggta ttcaatttca aaaacaatga aatttatttc taaataactg 5220
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 122 taatcttctt agtacttagt tagttcttta aataagaaac catcttagttt ttcaatttca 5460
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 133 aaaggaaaac gacgaaatg tccggagggt gcgtggcgg aaggaaagat tatgaacacg 120
 134 atcatgagca actacacgaa aatgttgcgc gacgcccggg acagcgatca agttaatatt 180
 135 gagattcatg tacaggatat gggaaagttt aatgaaatat catccgactt taaaatttgc 240
 136 attttatttca ctcaactgtg gcatgactcg gcactttttt ttgtcatct tccggctt 300
 137 aagcgaaata tcacaatggaa aacacgactt ttacctaaga tttggctcc aaacacgtgt 360
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 139 ctgtacgaga atgaaacagt ctggatttaac catgtcttta gtgtcaatc accttgcatt 480
 140 ttggatctgc gacagtttcc ttccgtactt caaacttgc tattatctt tgaatcttat 540
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 142 ccaattcaac ttccgtactt tttatgtttt cattattca cttttttttt aactttactc 660
 143 tatccaaacg ggtactggta tcagtttca gttactttca ctttcaaaacg acgatatttgc 720
 144 ttctatattt ttcaagcttca ttgttccaaatc tatcttacaa tcattgttac ttgggtttca 780
 145 ttctgtatgg aaccaaaaacg tctggccggca agaacaactg tcggaatctc atcttttca 840
 146 gttttttttt tccagtttgg aatatttttgg aaaaatcttca caagggtttc atatgtgaaa 900
 147 gcaatggatg ttttttttttggatgttca ttttttttttgc ttttttttttgc ggttttttttgc 960
 148 gttttttttt gtttttttttgc ttttttttttgc aacagcgatca gaaacgcggg acgacgacgg 1020
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 150 tatgcaaaacg ggggatctgtt aatcttccat ttttttttttgc aacgatgttca gaaacgcggg 1140
 151 aataatcgac atgatacacc tcaagttactt ggaagaggat cacttcatcg aaacggggca 1200
 152 ccatctccat taaaccttca aatgactaca ttttttttttgc agatcccttgc gtttttttttgc 1260
 153 cagctggccat ttttttttttgc atccgataga ccccttgcattt gtttttttttgc atcaacatca 1320
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 156 tctcaaaactt tcgtcaaaaaa ctatcgttca 1470

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158 <210> SEQ ID NO: 3
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 161 <213> ORGANISM: Caenorhabditis elegans
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 166 Ser Thr Gln Ala Lys Gly Lys Arg Arg Lys Cys Pro Glu Gly Ala Trp
 167 20 25 30
 168 Ser Glu Gly Lys Ile Met Asn Thr Ile Met Ser Asn Tyr Thr Lys Met
 169 35 40 45
 170 Leu Pro Asp Ala Glu Asp Ser Val Gln Val Asn Ile Glu Ile His Val
 171 50 55 60
 172 Gln Asp Met Gly Ser Leu Asn Glu Ile Ser Ser Asp Phe Glu Ile Asp
 173 65 70 75 80
 174 Ile Leu Phe Thr Gln Leu Trp His Asp Ser Ala Leu Ser Phe Ala His
 175 85 90 95
 176 Leu Pro Ala Cys Lys Arg Asn Ile Thr Met Glu Thr Arg Leu Leu Pro
 177 100 105 110
 178 Lys Ile Trp Ser Pro Asn Thr Cys Met Ile Asn Ser Lys Arg Thr Thr
 179 115 120 125
 180 Val His Ala Ser Pro Ser Glu Asn Val Met Val Ile Leu Tyr Glu Asn
 181 130 135 140
 182 Gly Thr Val Trp Ile Asn His Arg Leu Ser Val Lys Ser Pro Cys Asn
 183 145 150 155 160
 184 Leu Asp Leu Arg Gln Phe Pro Phe Asp Thr Gln Thr Cys Ile Leu Ile
 185 165 170 175
 186 Phe Glu Ser Tyr Ser His Asn Ser Glu Glu Val Glu Leu His Trp Met
 187 180 185 190
 188 Glu Glu Ala Val Thr Leu Met Lys Pro Ile Gln Leu Pro Asp Phe Asp
 189 195 200 205
 190 Met Val His Tyr Ser Thr Lys Lys Glu Thr Leu Leu Tyr Pro Asn Gly
 191 210 215 220
 192 Tyr Trp Asp Gln Leu Gln Val Thr Phe Thr Phe Lys Arg Arg Tyr Gly
 193 225 230 235 240
 194 Phe Tyr Ile Ile Gln Ala Tyr Val Pro Thr Tyr Leu Thr Ile Ile Val
 195 245 250 255
 196 Ser Trp Val Ser Phe Cys Met Glu Pro Lys Ala Leu Pro Ala Arg Thr
 197 260 265 270
 198 Thr Val Gly Ile Ser Ser Leu Leu Ala Leu Thr Phe Gln Phe Gly Asn
 199 275 280 285
 200 Ile Leu Lys Asn Leu Pro Arg Val Ser Tyr Val Lys Ala Met Asp Val
 201 290 295 300
 202 Trp Met Leu Gly Cys Ile Ser Phe Val Phe Gly Thr Met Val Glu Leu
 203 305 310 315 320
 204 Ala Phe Val Cys Tyr Ile Ser Arg Cys Gln Asn Ser Val Arg Asn Ala
 205 325 330 335
 206 Glu Arg Arg Arg Glu Arg Met Arg Asn Ser Gln Val Trp Ala Asn Gly
 207 340 345 350

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211      370           375           380
212 Asp Thr Pro Gln Val Thr Gly Arg Gly Ser Leu His Arg Asn Gly Pro
213 385           390           395           400
214 Pro Ser Pro Leu Asn Leu Gln Met Thr Thr Phe Asp Ser Glu Ile Pro
215      405           410           415
216 Leu Thr Phe Asp Gln Leu Pro Val Ser Met Glu Ser Asp Arg Pro Leu
217      420           425           430
218 Ile Glu Glu Met Arg Ser Thr Ser Pro Pro Pro Pro Ser Gly Cys Leu
219      435           440           445
220 Ala Arg Phe His Pro Glu Ala Val Asp Lys Phe Ser Ile Val Ala Phe
221      450           455           460
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230 <212> TYPE: DNA
231 <213> ORGANISM: Caenorhabditis elegans
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236 cgtttaattt tggaaacaca tatccgtcct cttagaaaca gcatcagaaa actttctgct 180
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240 atccgtctgg attatttctt ttcttacgtc ttctgagttt ttcataacttt ccaaattttt 420
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260 <211> LENGTH: 5550

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